



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/800,963  
Applicant (s) : Alex Kuperman, et al.  
Filed : March 15, 2004  
TC/A.U. : 1625  
Examiner : Unknown  
Title : METHOD OF PREPARING A CATALYST CONTAINING GOLD  
AND TITANIUM  
Docket No. : 44251A  
Customer No. 00109

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DATE OF DEPOSIT: July 6, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicants' duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449.

A copy of each cited Foreign Patent Document and Other Disclosure is enclosed herewith, with the following exceptions. Copies of the cited, but unpublished pending US applications are not enclosed, because these applications correspond to published International Applications that are provided herewith.

The following equivalents were found: US Patents 6,562,986 and 6,670,491 (both not listed) are continuations of US Patent 6,323,351 (listed); US Patent 6,309,998 (not listed) is a divisional of US Patent 6,031,116 (listed); US Patent 5,808,136 (not listed) is an equivalent of EP 0723810 (listed); US Patents 5,932,750 and 6,034,028 (both not listed) are equivalents of WO 97/34692 (listed); and US Patent 5,859,265(not listed) is an equivalent of WO 96/02323 (listed).

The Examiner is requested to review each reference and formulate his or her own understanding thereof.

Respectfully submitted,

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## INFORMATION DISCLOSURE STATEMENT

(Use Several Sheets if necessary)

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	3,959,316	05/25/76	Piccinini et al.	260	348.5	
	4,007,135	02/08/77	Hayden et al.	252	467	
	4,113,658	09/12/78	Geus	252	454	
	4,242,235	12/30/80	Cognion et al.	252	455	
	4,839,327	06/13/89	Haruta et al.	502	243	
	4,937,219	06/26/90	Haruta et al.	502	174	
	5,051,394	09/24/91	Haruta et al.	502	324	
	5,145,968	09/08/92	Monnier et al.	546	268	
	5,304,596	04/19/94	Moriya et al.	525	66	
	5,380,697	01/10/95	Matusz et al.	502	348	

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
0 482 817 A1	04/29/1992	Europe			
0 709 360 A1	05/1/1996	Europe			
0 723 810 A1	07/31/1996	Europe			X
0 916 403 A2	05/19/1999	Europe			
JP-0 016422	01/25/1994	Japan			X (English Abstract)

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	"Activation and Regeneration of a Hydro-Oxidation Catalyst", filed in the United States Receiving Office on September 30, 2002, USSN 10/148804 (Attorney's Docket No. 44361A); Applicants: Deborah H. Parker et al. (corresponds to WO 01/41926).
	CRC Handbook of Chemistry & Physics, Robert C. Weast, Ed., 57 <sup>th</sup> Edition, p. F210 (1976-1977).
	Dekkers, M.A.P. et al., "CO Adsorption and Oxidation on Au/TiO", CATALYSIS LETTERS, Vol. 56, pp. 195-197 (1998).

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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.

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	5,480,854	01/02/96	Rajaram et al.	502	304	
	5,502,020	03/26/96	Iwakura et al.	502	317	
	5,506,273	04/09/96	Haruta et al.	518	713	
	5,525,741	06/11/96	Sugita et al.	549	536	
	5,532,030	07/02/96	Hirose et al.	428	35.7	
	5,571,771	11/05/96	Abel et al.	502	330	
	5,700,753	12/23/97	Wang et al.	502	330	
	5,703,254	12/30/97	Gaffney et al.	549	536	
	5,965,754	10/12/99	Clark et al.	549	533	
	6,031,116	02/29/00	Bowman et al.	549	523	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
	JP-3097623	04/23/1991	Japan			X (English Abstract)	
	01/41926	06/14/2001	PCT				
	03/011454	02/13/2003	PCT				
	96/02323	02/11/1996	PCT			X	
	97/25143	07/17/1997	PCT			X	

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	Derwent Abstract 1994-061881 – Corresponds to JP-06 016422 (1994).
	Geus, J.W., "Preparation of Catalysts III", STUDIES IN SURFACE SCIENCE AND CATALYSIS, Vol. 16, pp. 1, 6-8 (1983)
	"Method of Increasing the Lifetime of a Hydro-Oxidation Catalyst", filed in the US Receiving Office on January 21, 2004, USSN 10/484,328 (Attorney's Docket No. 61121A); Applicants: David G. Barton et al. (corresponds to WO 03/011454).

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	6,255,499	07/03/01	Kuperman et al.	549	523	
	6,323,351	11/27/01	Bowman et al.	549	536	
	6,646,142	11/11/03	Meima et al.	549	536	

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
					YES	NO
97/34692	09/25/1997	PCT			X	
97/34693	09/25/1997	PCT				
97/47386	12/18/1997	PCT				
98/00413	01/08/1998	PCT				
98/00414	01/8/1998	PCT				
98/00415	01/8/1998	PCT				
99/00188	01/7/1999	PCT				
99/52883	10/21/1999	PCT				

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	Linsen, B.G., "Physical and Chemical Aspects of Adsorbents and Catalysts"; STRUCTURE AND ACTIVITY OF SILICA-SUPPORTED NICKEL CATALYSTS, p. 501 (1970).
	Patent Abstracts of Japan, "Production of Titanium Oxide for Fixing Gold Superfine Grains", Corresponds to JP-3097623 (1991).
	"Process for the Direct Oxidation of Olefins to Olefin Oxides", filed in the United States on December 11, 1998, USSN 09/209,698 (Attorney's Docket No. 42637F); Applicant: Robert G. Bowman et al. (corresponds to WO/ 98/00414).

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							YES	NO

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Sachtler, W.M.H. et al., "On the Mechanism of Ethylene Epoxidation", CATALY. REV-SCI ENG., Vol. 23 (1&2), pp. 127-149 (1981).
		Satterfield, Charles N., HETEROGENEOUS CATALYSIS IN PRACTICE, McGraw-Hill Book Company, pp. 70-72, 82-83 (1980).
		Yen-Shuo Su et al., "XPS and DRS of Au/TiO <sub>2</sub> Catalysts: Effect of Pretreatment:", CATALYSIS LETTERS, Vol. 57, pp. 49-53 (1999).

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